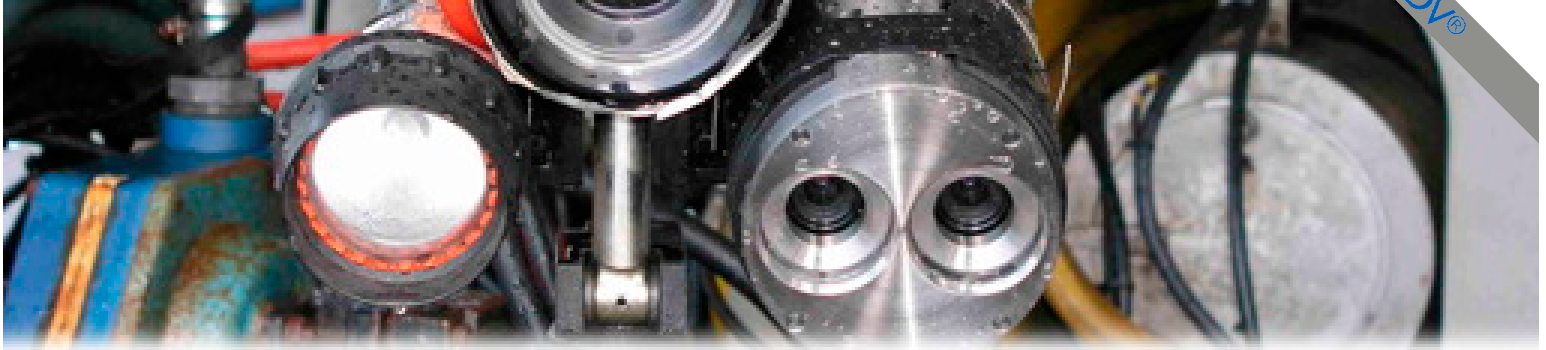


Welaptega 3Dimensional Video (3DV)[®]



3DV[®] is part of the Welaptega **Subsea Intelligence Suite**[™] also comprising mooring Chain Measurement (CMS)[®], Rope Measurement (RMS)[®] and 3Dimensional Modelling (3DM)[®]. This unique toolset gives you the information you need to protect the integrity of your subsea infrastructure.

“A conventional ROV is unlikely to provide the viewing quality necessary to determine the extent of wear and other inspection methods including mini-3D cameras for use with or without flexible manipulator arms may be required.”

UK Health and Safety Executive

www.welaptega.com

The Business Problem

Underwater asset failure can compromise production, cost money, impact the environment and hurt your reputation.

Well-maintained underwater assets are key to a productive offshore facility, whether it's a drilling rig, floating production system or any other subsea installation. If a subsea component is damaged or deteriorating, operators need to know.

But it isn't always easy to see assets that are hidden underwater. This can make an offshore operation vulnerable to potentially serious and expensive problems.

The Business Solution

Introduce a real-time 3D view to your subsea assets.

Welaptega's 3DV[®] gives a clear, real-time picture of underwater assets to help operators identify problems and make the best decisions. 3DV[®] also enables ROV pilots to carry out complex construction and repair operations more efficiently. This has been proven to reduce costs significantly.

Gathering subsea intelligence that matters.

The Technical Solution

3D visualization for inspection and manipulation.

Stereoscopic video images provided by Welaptega 3DV[®] add unprecedented spatial perception for real-time inspection tasks in underwater operations. Using 3DV[®], ROV crews can perform manipulation tasks more quickly and with greater precision than with 2D guidance.

Welaptega 3DV[®] is comprised of a compact underwater camera unit and a top-side display unit. The underwater cameras are available in a number of configurations, from small light-weight mini 3D systems designed for observation ROVs to more robust 4000m-rated 3D systems for work-class ROVs.

The 3DV[®] uses polarizing technology similar to that used by 3D IMAX[™] to create real-time 3D visualization. The top-side unit is comprised of a standard 17" CRT monitor; a stereoscopic video display unit, and LCD polarizing screen with polarized glasses for the operator and viewers.

Welaptega 3DV[®] specifications

Deployment requirements

- Work-class ROV
- Eye Ball ROV
- Can be diver deployed

System components

- Welaptega 300 – 4000m-rated camera system
- Standard and miniaturized models
- Dimmable high intensity LED lights and tungsten halide arc lights
- Mounted on ROV pan-and-tilt
- Top-side 3D viewing suite
- Digital recording system
- Control PC

Target surface preparation required:

- None

“Advances in 3D camera design and the development of user-friendly viewing systems have led to the introduction of a new generation of 3D video systems.”

UK Health and Safety Executive

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